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LB324
LB334
LB424
LB434
Square Baler

SERVICE MANUAL

Part number 47510985
English
March 2013
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CASE IH AGRICULTURE

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Safety rules

PRECAUTIONARY STATEMENTS
Personal Safety



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

Throughout this manual and on machine decals, you will find precautionary statements ("DANGER", "WARNING", and "CAUTION") followed by specific instructions. These precautions are intended for the personal safety of you and those working with you. Please take the time to read them.

⚠ DANGER ⚠

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury. The color associated with Danger is RED.

M1169A

⚠ WARNING ⚠

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury. The color associated with Warning is ORANGE.

M1170A

⚠ CAUTION ⚠

CAUTION, used with the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in minor or moderate injury. The color associated with Caution is YELLOW.

M1171A

FAILURE TO FOLLOW "DANGER", "WARNING", AND "CAUTION" INSTRUCTIONS MAY RESULT IN SERIOUS BODILY INJURY, DAMAGE TO HEALTH OR DEATH.

NOTICE: *Install new decals if the old decals are destroyed, lost painted over or cannot be read. When parts are replaced that have decals make sure you install a new decal with each new part.*

MACHINE SAFETY

NOTICE: *The word "notice" is used to inform the reader of something they need to know to prevent minor machine damage if a certain procedure is not followed.*

The precautionary statements ("Important") is followed by specific instructions. This statement is intended for machine safety.

INFORMATION

NOTE: *Instructions used to identify and present supplementary information.*

LEGAL OBLIGATIONS

This machine may be equipped with special guarding or other devices in compliance with local legislation. Some to these require active use by the operator. Therefor, check local legislations on the usage of this machine.

ACCIDENT PREVENTION

Most accidents or injuries that occur in workshops are the result of non compliance to simple and fundamental safety principles. For this reason, IN MOST CASES THESE ACCIDENTS CAN BE AVOIDED by applying the fundamental safety principles, acting with the necessary caution and care.

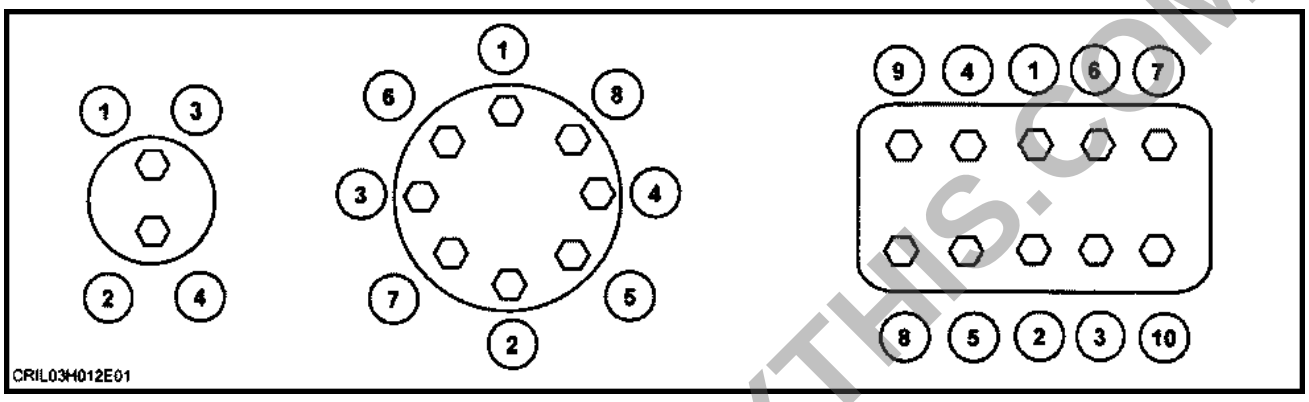
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Torque

Minimum hardware tightening torques (in N m or lb in /lb ft) for normal assembly applications unless otherwise stated

NOTICE: *Shown below is the suggested initial torque tightening sequences for general applications, tighten in sequence from item 1 through to the last item of the hardware.*

The minimum hardware tightening torque on drawings, in specifications etc. have priority.
The applicable CNH Standard is ENS7001.



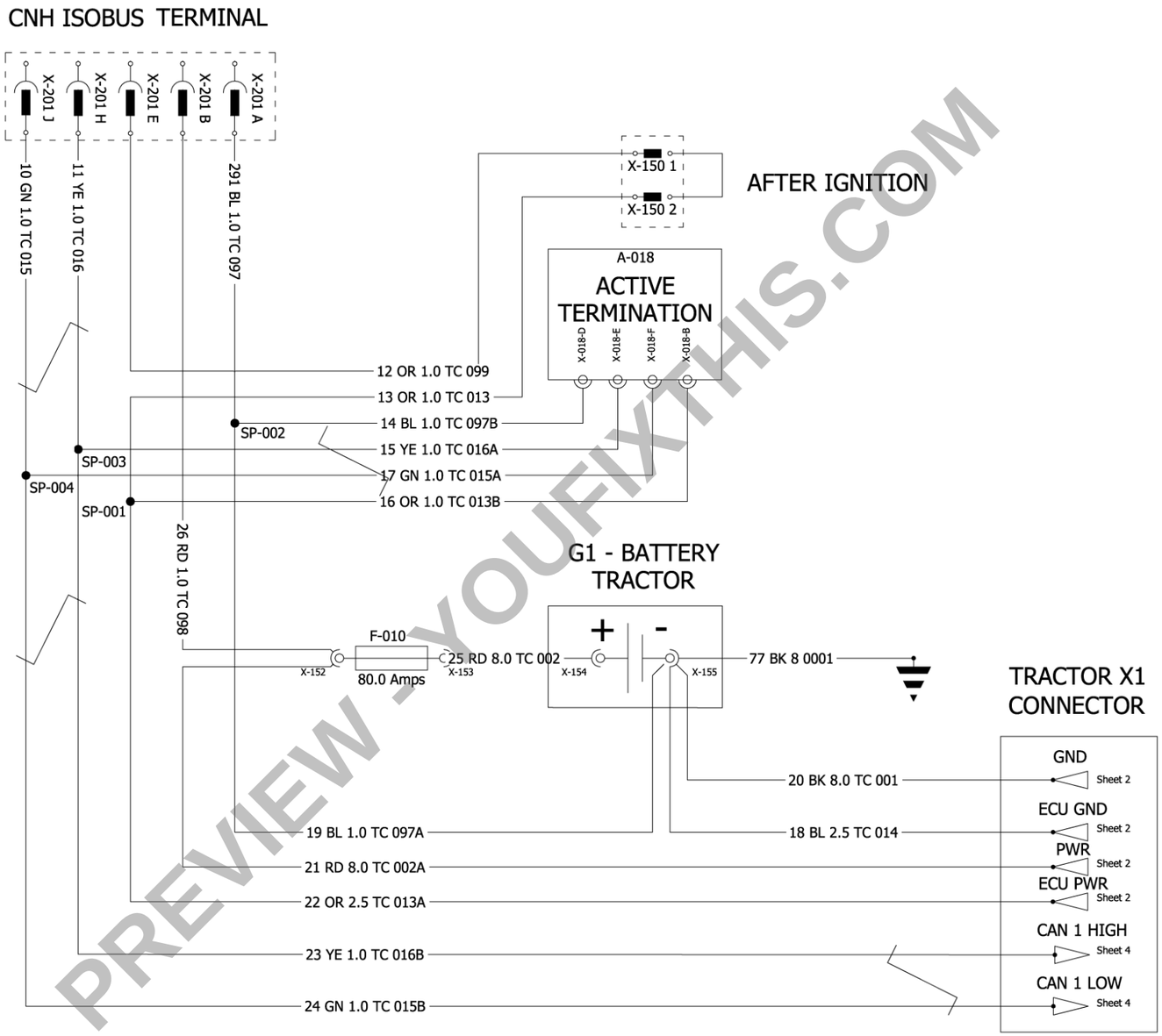
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Metric hardware

	Class 8.8 in N m (lb in or lb ft)			Class 10.9 in N m (lb in or lb ft)		
Nominal Size	Plated nut	Lock nut	Hardened nut	Plated nut	Lock nut	Hardened nut
M3	1.3 N·m (11.5 lb in)	0.7 N·m (6.2 lb in)	1.2 N·m (10.6 lb in)	1.8 N·m (15.9 lb in)	0.9 N·m (8.0 lb in)	1.6 N·m (14.2 lb in)
M4	2.9 N·m (25.7 lb in)	1.6 N·m (14.2 lb in)	2.6 N·m (23.0 lb in)	4.2 N·m (37.2 lb in)	2.3 N·m (20.4 lb in)	3.7 N·m (32.7 lb in)
M5	5.9 N·m (52.2 lb in)	3.2 N·m (28.3 lb in)	5.3 N·m (46.9 lb in)	8.5 N·m (75.2 lb in)	4.6 N·m (40.7 lb in)	7.6 N·m (67.3 lb in)
M6	10.1 N·m (89.4 lb in)	5.5 N·m (48.7 lb in)	9.1 N·m (80.5 lb in)	14.5 N·m (10.7 lb ft)	7.9 N·m (69.9 lb in)	13 N·m (9.6 lb ft)
M8	24.5 N·m (18.1 lb ft)	13.5 N·m (10.0 lb ft)	22 N·m (16.2 lb ft)	35.1 N·m (25.9 lb ft)	19.3 N·m (14.2 lb ft)	31.5 N·m (23.2 lb ft)
M10	48.7 N·m (35.9 lb ft)	26.8 N·m (19.8 lb ft)	43.8 N·m (32.3 lb ft)	69.5 N·m (51.3 lb ft)	38.2 N·m (28.2 lb ft)	62.5 N·m (46.1 lb ft)
M12	85 N·m (62.7 lb ft)	46.7 N·m (34.4 lb ft)	76.5 N·m (56.4 lb ft)	121 N·m (89.2 lb ft)	66.5 N·m (49.0 lb ft)	108.9 N·m (80.3 lb ft)
M14	135 N·m (99.6 lb ft)	74.2 N·m (54.7 lb ft)	121.5 N·m (89.6 lb ft)	193 N·m (142.3 lb ft)	106.1 N·m (78.3 lb ft)	173.7 N·m (128.1 lb ft)
M16	210 N·m (154.9 lb ft)	115.5 N·m (85.2 lb ft)	189 N·m (139.4 lb ft)	301 N·m (222 lb ft)	165.5 N·m (122.1 lb ft)	270.9 N·m (199.8 lb ft)
M18	299 N·m (220.5 lb ft)	164.4 N·m (121.3 lb ft)	269.1 N·m (198.5 lb ft)	414 N·m (305.4 lb ft)	227.7 N·m (167.9 lb ft)	372.6 N·m (274.8 lb ft)
M20	425 N·m (313.5 lb ft)	233.72 N·m (172.4 lb ft)	382.5 N·m (282.1 lb ft)	587 N·m (432.9 lb ft)	322.8 N·m (238.1 lb ft)	528.3 N·m (389.7 lb ft)
M22	579 N·m (427 lb ft)	318.4 N·m (234.8 lb ft)	521.1 N·m (384.3 lb ft)	801 N·m (590.8 lb ft)	440.5 N·m (324.9 lb ft)	720.9 N·m (531.7 lb ft)
M24	735 N·m (542.1 lb ft)	404.2 N·m (298.1 lb ft)	661.5 N·m (487.9 lb ft)	1016 N·m (749.4 lb ft)	558.8 N·m (412.1 lb ft)	914.4 N·m (674.4 lb ft)
M27	1073 N·m (791.4 lb ft)	590.1 N·m (435.2 lb ft)	967.5 N·m (713.6 lb ft)	1486 N·m (1096 lb ft)	817.3 N·m (602.8 lb ft)	1337 N·m (986.1 lb ft)
M30	1461 N·m (1077.6 lb ft)	803.5 N·m (592.6 lb ft)	1315 N·m (969.9 lb ft)	2020 N·m (1489.9 lb ft)	1111 N·m (819.4 lb ft)	1818 N·m (1340.9 lb ft)

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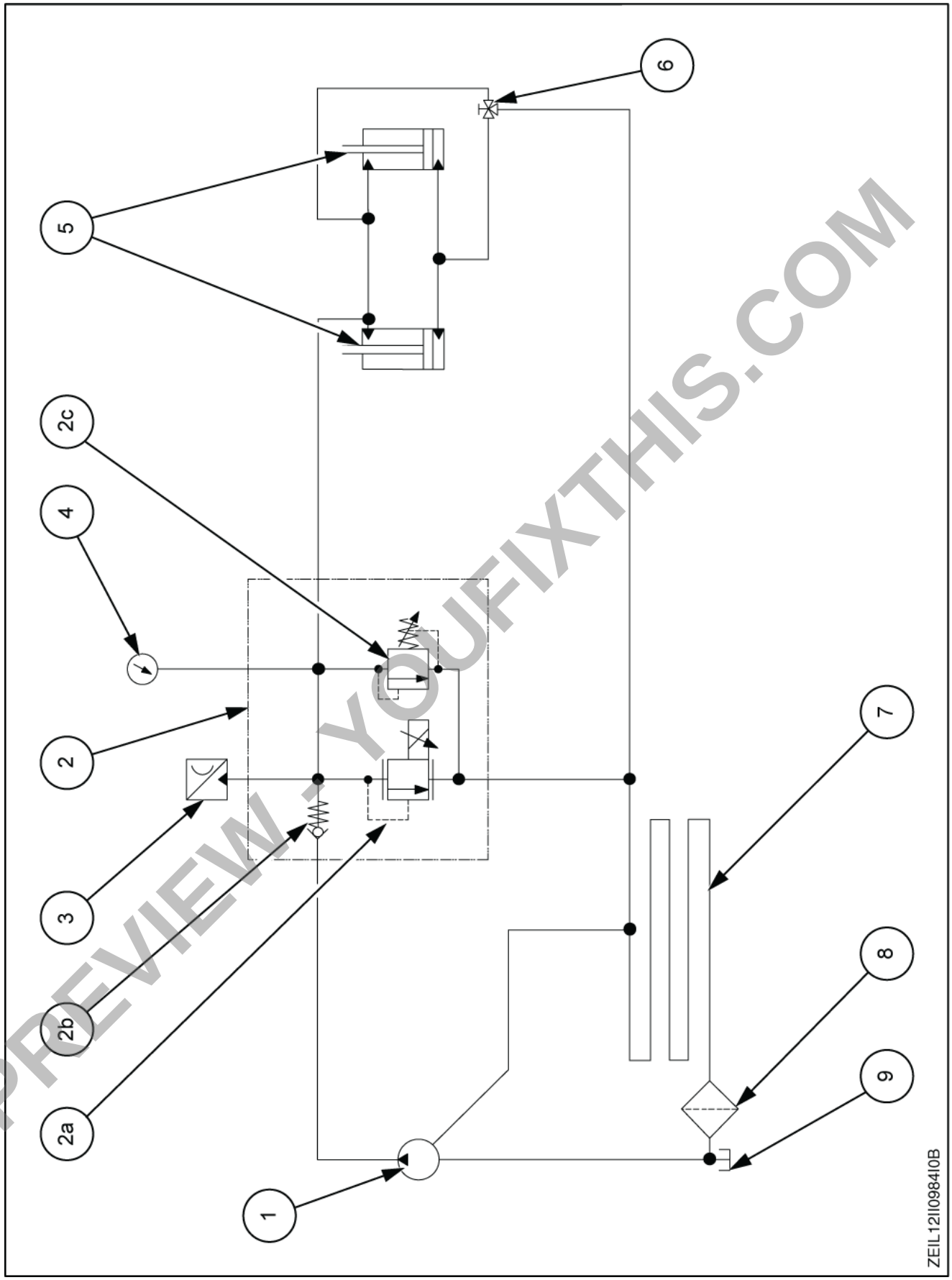
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MONITOR TRACTOR

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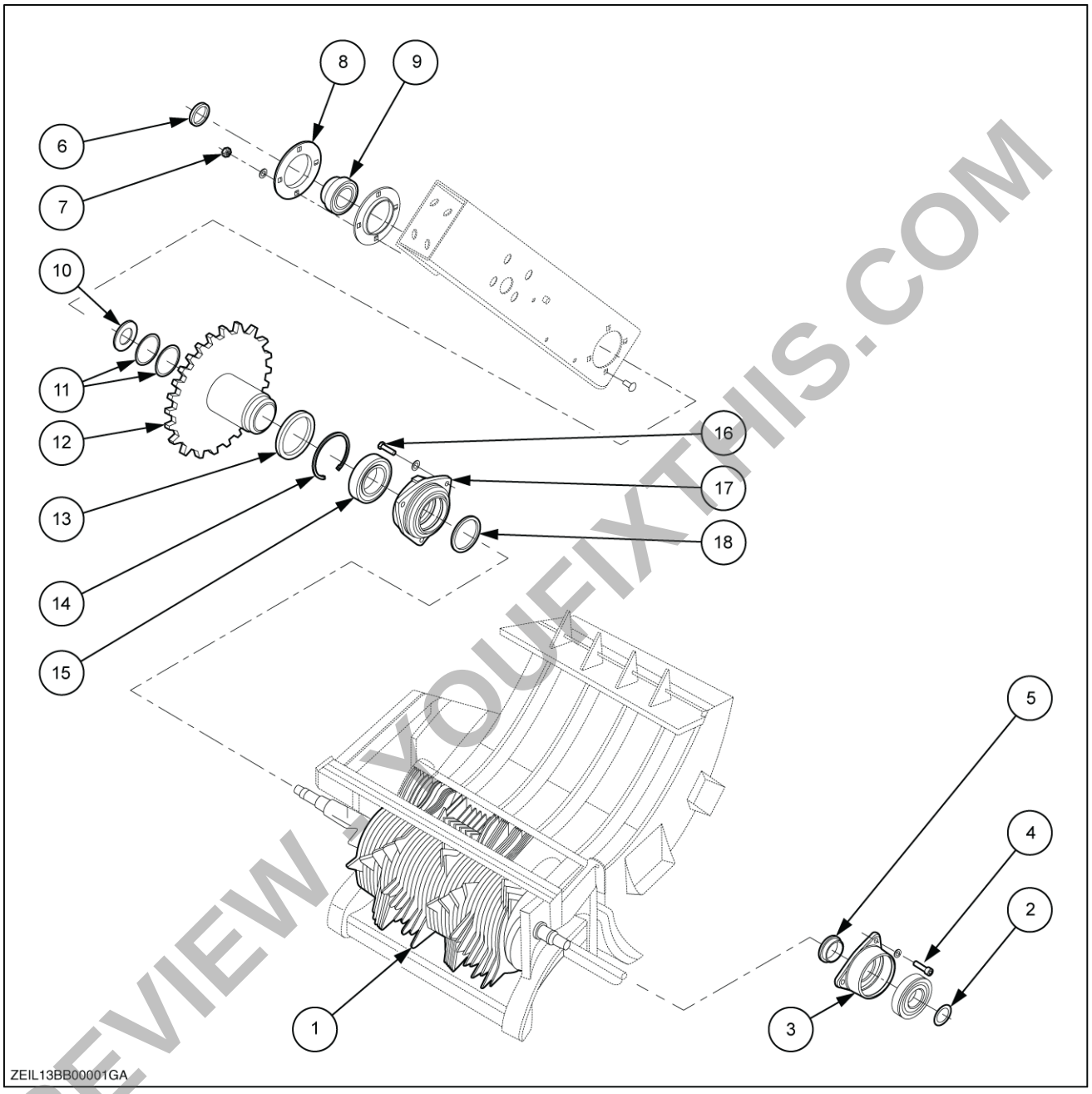
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Rotor - Exploded view

LB324R, LB334R, LB424R, LB434R



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1	Rotor	10	Retaining ring
2	Retaining ring	11	Shim
3	Bearing housing	12	Sprocket
4	Hex socket head screw	13	Seal
5	Sleeve	14	Retaining ring
6	Ring	15	Bearing
7	Hardware	16	Bolt
8	Flange	17	Bearing housing
9	Bearing	18	Seal

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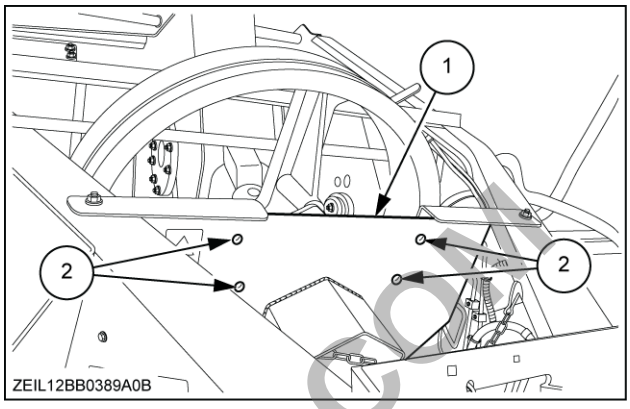
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Flywheel - Remove Bearings with shimming procedure

1. Open the flywheel shielding.

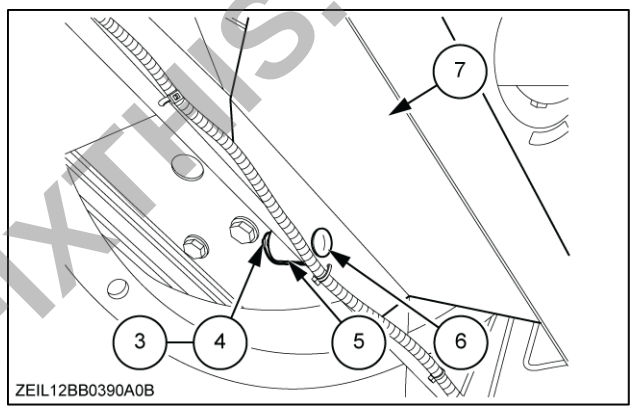
NOTE: *Refer to the Operator's Manual.*

2. Remove the hardware **(2)** and the cover plate **(1)**.



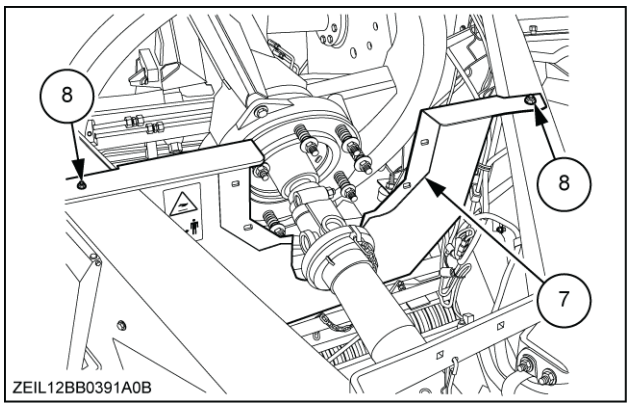
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3. Remove the nut **(3)**, the washer **(4)**, the bushing **(5)** and the bolt **(6)** from the cover plate **(7)**.



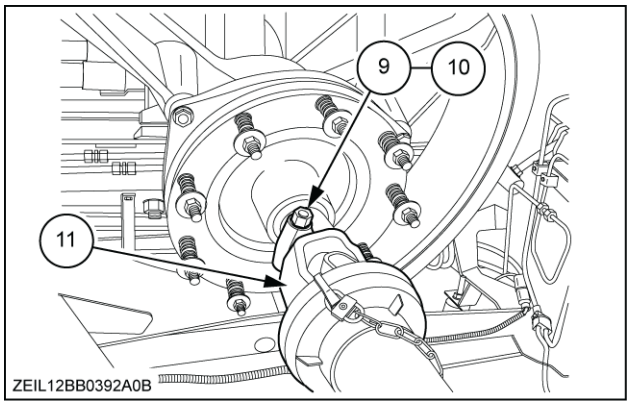
ZEIL12BB0390A0B 2

4. Remove the hardware **(8)** and the cover plate **(7)**.



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5. Remove the nut **(9)** and the bolt **(10)** from the PTO (Power Take Off) shaft **(11)**.



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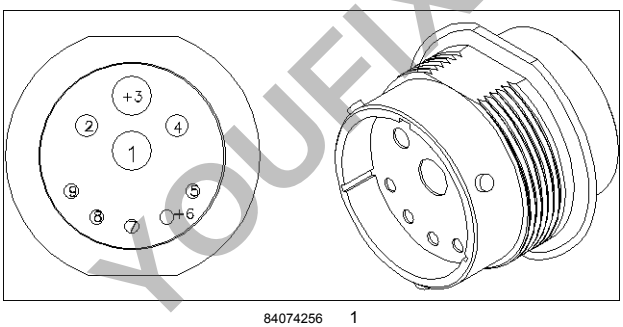
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Wire connectors - Component Diagram 00

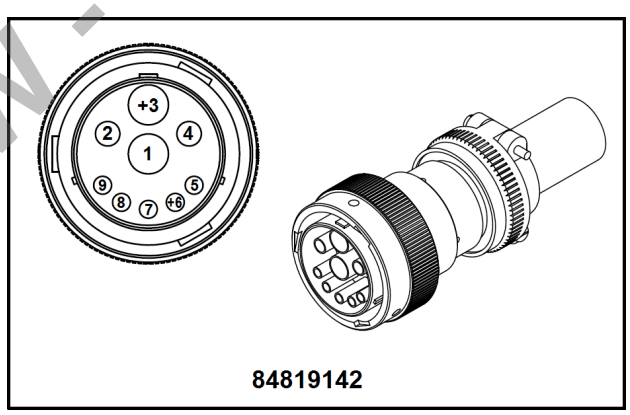
CONNECTOR X-001

CONNECTOR X-001 TRACTOR-BALER			
PIN NUMBER	**WIRE NUMBER**	**CIRCUIT REFERENCE**	**ELECTRICAL SCHEMATIC FRAME**
1	20 (BK) 27 (BK)	To X-155-1 (ground) To X-011-1 (ground)	**Wire harnesses - Electrical schematic frame 02 (55.100)**
2	18 (BL) 30 (BK)	To X-155-1 (ECU ground) To X-500-1 (ECU ground)	
3	21 (RD) 29 (RD)	To X-152-1 (**+12 V** before contact) To X-010-1 (**+12 V** before contact)	
4	22 (OR) 28 (RD)	To SP-001 (**+12 V** before contact) To X-500-2 (**+12 V** before contact)	
5 - 7	-	-	-
8	23 (YE) 31 (YE)	To SP-003 (CAN 1 high) To X-500-3 (CAN 1 high)	**Wire harnesses - Electrical schematic frame 04 (55.100)**
9	24 (GN) 32 (GN)	To SP-004 (CAN 1 low) To X-500-4 (CAN 1 low)	

NOTE: *For the wiring color code refer to,* ***Electrical system - Component identification (55.000)****.*



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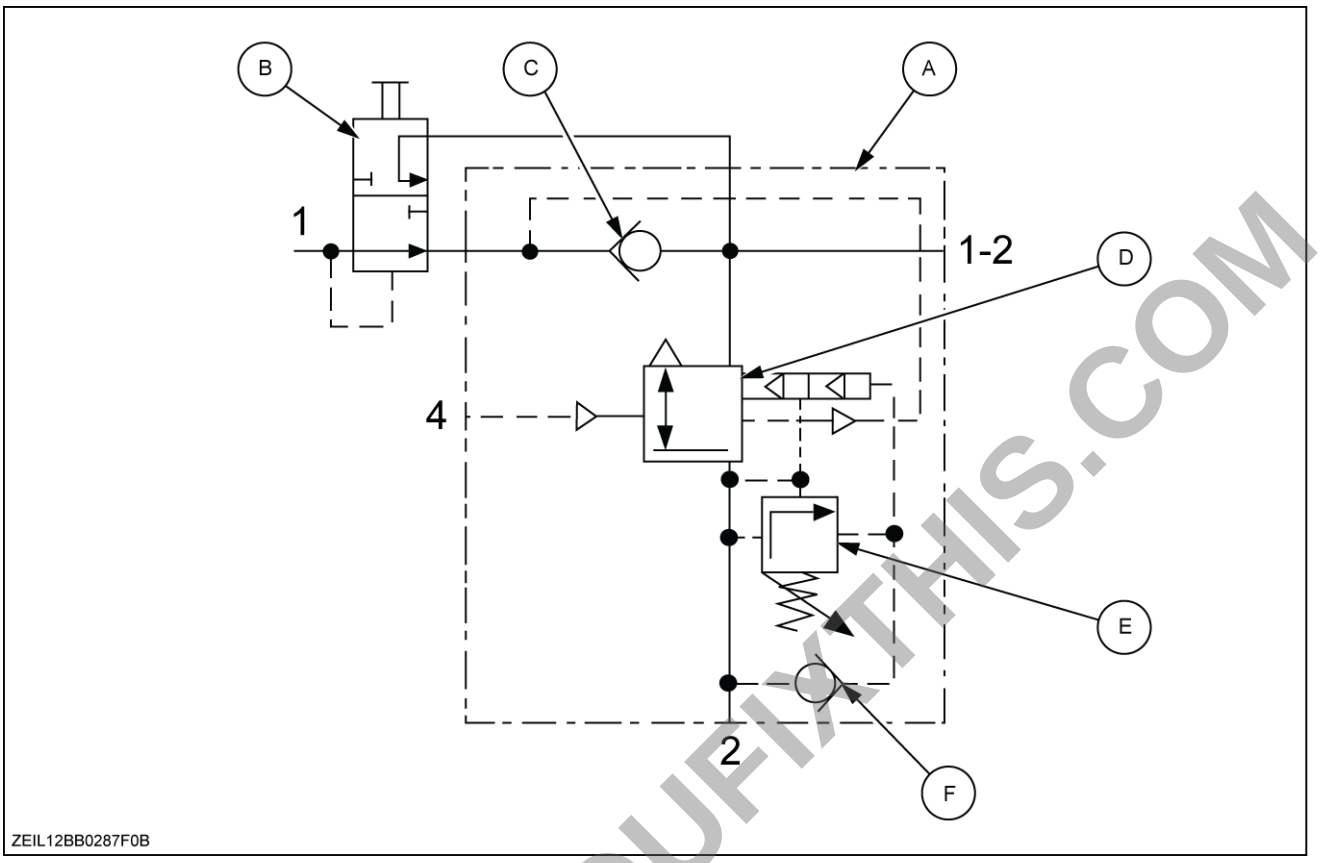
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NOTE: *For connector service tools refer to,* ***Electrical system - Special tools 3 (55.000)****.*

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Air brake valve - Pneumatic schema



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A. Pressure relief valve
B. Pressure release valve
C. Check valve
D. Relay valve
E. Pressure control valve
F. Check valve

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Hydraulic or electrical problems.

To find out if the problem is electric or hydraulic, remove the electrical connector from the density valve (also called the manual override of the bale density control system). Then turn the screw on the valve to regulate the pressure with a PTO speed above **600 RPM**.
If the pressure is following your movements with the screw and you are able to build up enough pressure (maximum **160 bar** (**2320 psi**)), the problem is not hydraulic (go to the electrical problems). If you aren't able to do this, the problem is hydraulic.

Field test:

Step 1:

• Remove the connector from the density valve (manual mode). • Run the PTO speed > **600 RPM**. • Turn the pressure regulation screw until the desired pressure is reached.	Is the desired pressure constant?	YES	Go to the chapter "Stationary test" below.
		NO	Go to the chapter "Hydraulic problems".

NOTE:
*- Never exceed the designed operating pressure of **160 bar** (**2320.0 psi**) as damage may result.*
*- Do not forget to put the circulation pressure back on **10 - 15 bar** (**145.0 - 217.5 psi**) after this test, by turning the screw fully counterclockwise.*

Stationary test:

Before starting the test procedure make sure the pressure gauge is reading the correct amount of pressure. If the reading on the display and the pressure gauge give a different result, install a new pressure sensor and/or pressure gauge on the machine.

Step 2:

Run the PTO speed > **600 RPM**.	Are the PTO speeds on Virtual Terminal (VT) and on the tractor similar?	YES	Continue with the next step.
		NO	Go to the knotter gearbox sensor, refer to **Pressing/Bale formation electrical control - Dynamic description (55.629)**.

Step 3:

Disconnect the connector and turn the screw of the density valve gently inwards until the pressure reaches **160 bar** (**2320 psi**) and go into diagnostics.	Is the pressure = **160 bar** (**2320 psi**)?	YES	Continue with the next step.
		NO	Go to the chapter "hydraulic problems".

Step 4:

Turn the screw fully counter clockwise.	Is the pressure < **20 bar** (**290 psi**)?	YES	Continue with the next step.
		NO	Go to the chapter "hydraulic problems".

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Pump and reservoir - General specification

Pump

Power	**12 V**
Current	**3.5 A**
Maximum operating pressure	**350 bar** (**5075 psi**)
Operating temperature range	**-25 - 70 °C** (**-13 - 158 °F**)
Output per minute	**2.8 cm³** (**0.17 in³**)
Pressure relief valve	**259 - 293 bar** (**3756 - 4249 psi**)
Enclosure rating (protected from water sprayed in all directions)	**IP6K9K**
Outlet connection	1/8” NPT

Reservoir

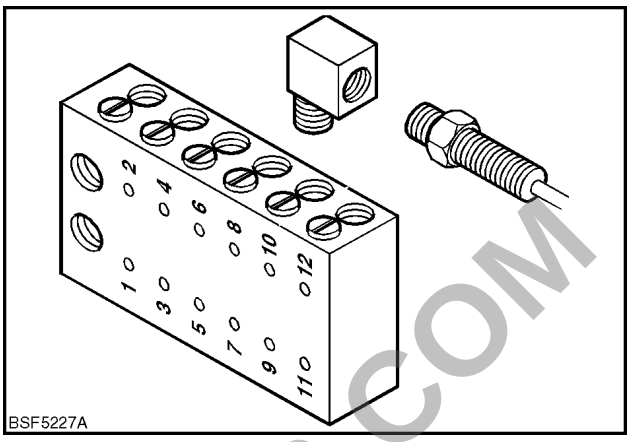
Capacity	**2 l** (**0.53 US gal**)
Enclosure rating (protected from water sprayed in all directions)	**IP6K9K**
Grease type	Grease classified under **NLGI 2**
Fill method	• By grease fitting • By quick fill pump

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Amount of pulses

The grease flow through the system drives the pin of the sensor on the main divider in and out, as the divider cycles. A sensor mounted on the main divider counts the number of pin movements or pulses.



BSF5227A 13

When the required number of pin movements have been reached, the machine controller stops the electric pump, until the next cycle.

Every machine has a predefined number of pulses for a complete grease feed to all the lubrication points. The pump is switched off by the controller as soon as the required amount of pulses has been reached.

The amount of pulses will vary by model:

- 4-knotter rotor cutter machines and all standard machines: 5 pulses
- 6-knotter rotor cutter machines: 6 pulses
- 4-knotter packer cutter machines: 7 pulses

The required number of pin movements must be seen within **15 min**. This maximum “grease on” time is a safety feature for the machine to ensure that the greasing cycle is not interrupted for a long-term period.

If this maximum grease time is exceeded, the controller will stop the pump and a "Greasing system” warning message will appear on the monitor. This is an indication of a problem (no grease left in the reservoir or a blockage in the system).

NOTE: *The pump will however restart for the next cycle at the selected interval even if the warning message is still illuminated.*

Greasing cycle interval

The electrical grease pump delivers grease to the main divider which will distribute the grease to the other dividers of the centralized greasing system. All the grease points covered by the centralized greasing system will be supplied with grease during each greasing cycle interval set by the operator.

The greasing cycle interval refers to the “greasing pump” off time. The shorter the “pump off” time, the more intense the lubrications will be.

- Off: greasing system continuously OFF
- Low: **27 min**
- Normal: **13 min**
- High: **4 min**
- Test mode: greasing system continuously ON

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Flywheel - 205

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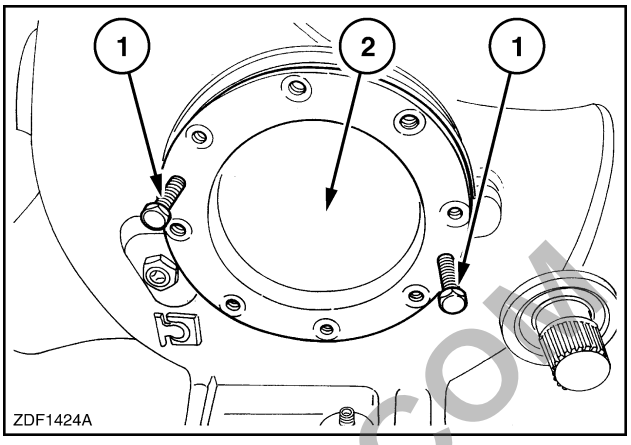
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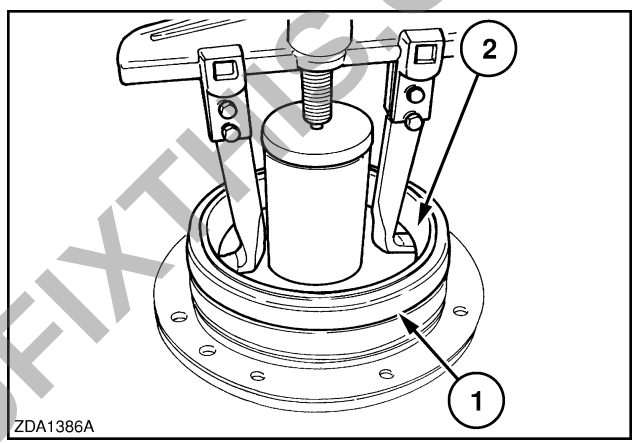
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19. Fit two bolts **(1) (M12)** in the suitable threaded holes to remove the cover **(2)**.
20. Remove the shim set and keep them with the relevant cover.



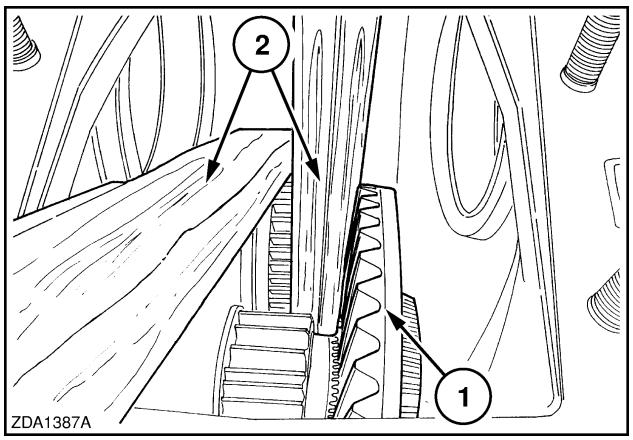
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21. If necessary, remove the bearing outer race **(2)** from the cover **(1)**.



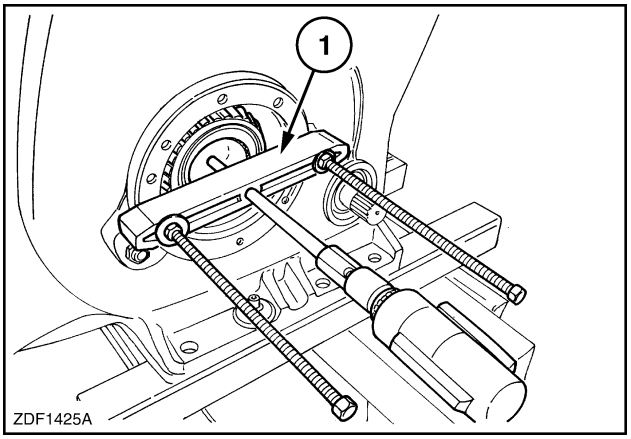
ZDA1386A 11

22. Support the crown wheel **(1)** by installing wooden blocks **(2)** between crown wheel **(1)** and the housing.



ZDA1387A 12

23. Press out the intermediate shaft by using a tool **(1)**.



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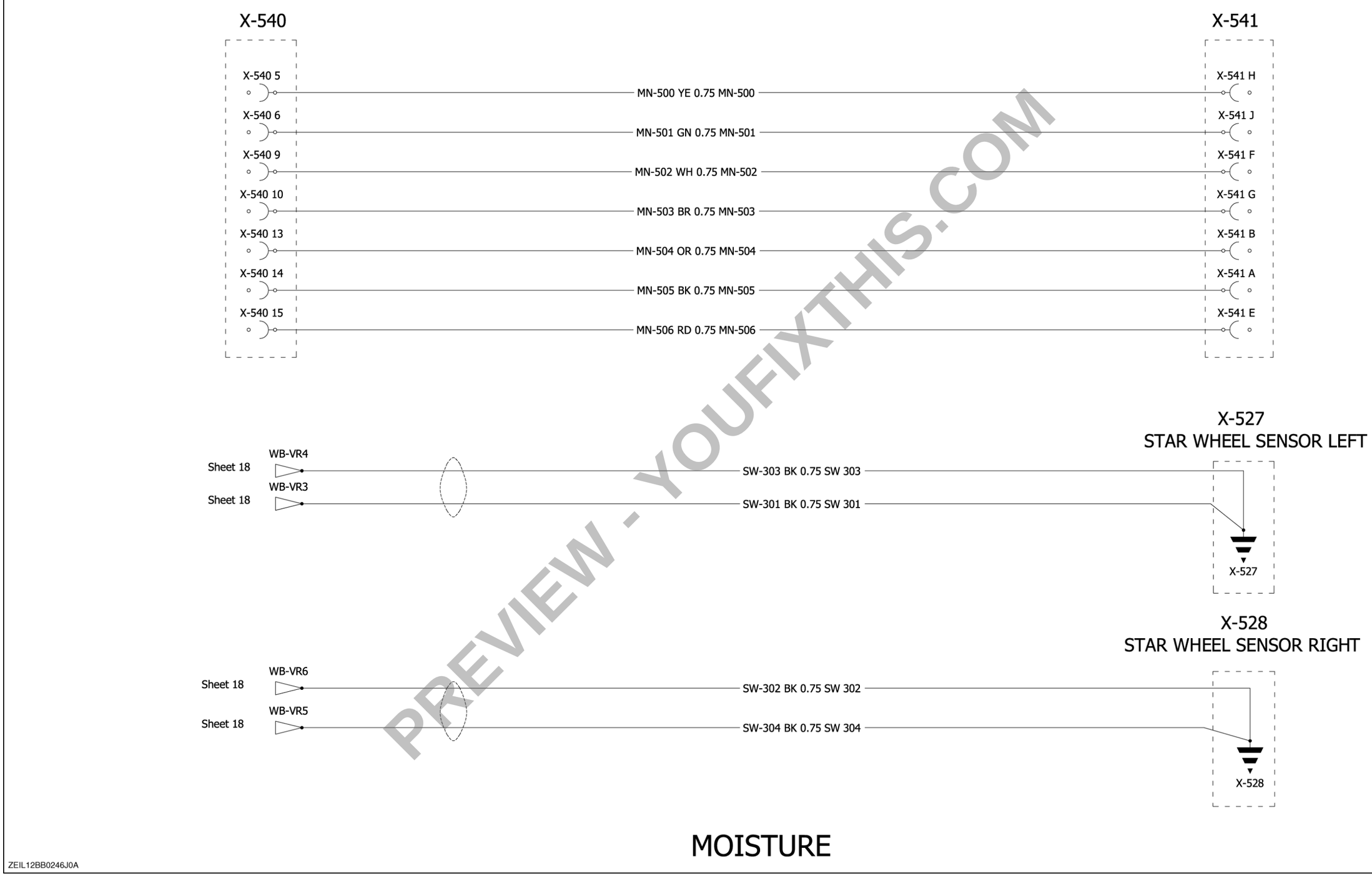
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1. Check valve
2. Pressure relief valve
3. Pressure control valve

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22a



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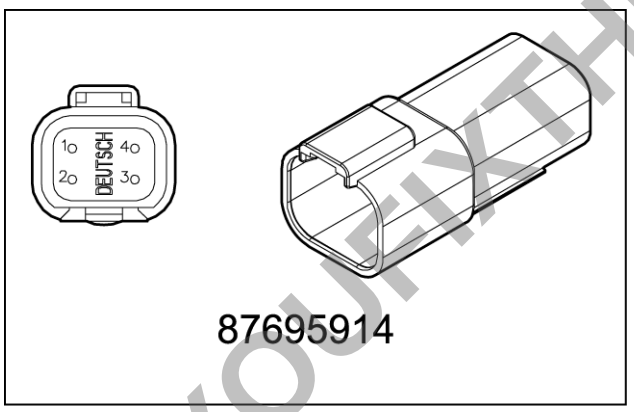
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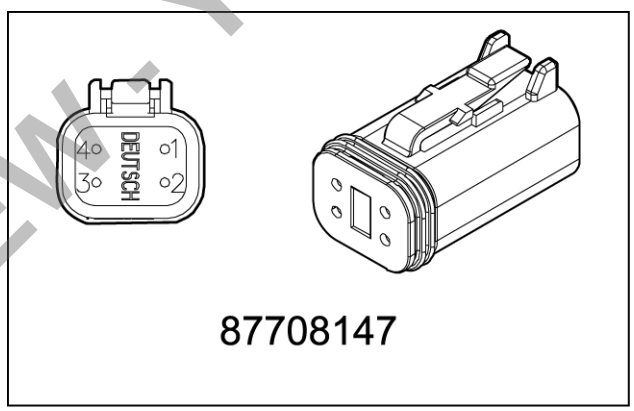
CONNECTOR X-140

CONNECTOR X-140 INTERCONNECT FRONT SIDE LIGHTS			
PIN NUMBER	**WIRE NUMBER**	**CIRCUIT REFERENCE**	**ELECTRICAL SCHEMATIC FRAME**
1	206A (VT)	To X-510-1 To SP-206	**Wire harnesses - Electrical schematic frame 30 (55.100)**
2	209A (BK)	To X-513-1 (ground) To SP-209	
3	212A (VT)	To X-523-1 To SP-212	
4	215A (BK)	To X-524-1 (ground) To SP-215	

NOTE: *For the wiring color code refer to,* ***Electrical system - Component identification (55.000)****.*



87695914 1



87708147 2

NOTE: *For connector service tools refer to,* ***Electrical system - Special tools 3 (55.000)****.*

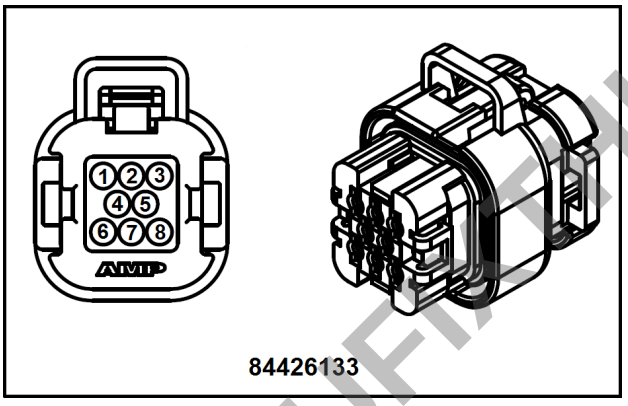
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CONNECTOR X-529

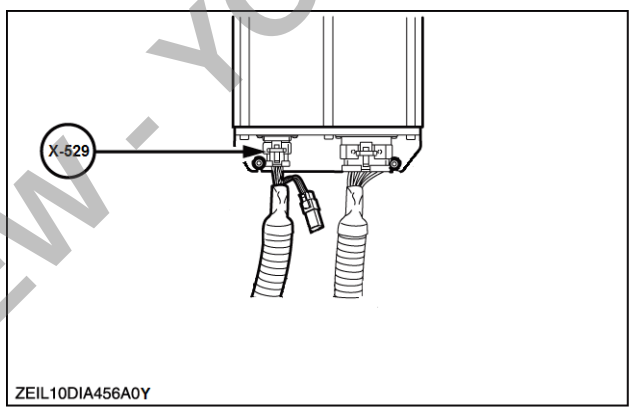
CONNECTOR X-529 BALE WEIGHT CONTROLLER			
PIN NUMBER	**WIRE NUMBER**	**CIRCUIT REFERENCE**	**ELECTRICAL SCHEMATIC FRAME**
1	230 (RD)	To SP-236 (**+12 V** before contact)	**Wire harnesses - Electrical schematic frame 23 (55.100)**
2	1 (GN)	To SP-233 (CAN 1 low)	
4	231 (RD)	To SP-236 (**+12 V** before contact)	
5	234 (YE)	To SP-242 (CAN 1 high)	
6	3 (BK)	To SP-235 (ground)	
8	232 (RD)	To SP-236 (**+12 V** after contact)	

NOTE: *For the wiring color code refer to,* ***Electrical system - Component identification (55.000)****.*



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NOTE: *For connector service tools refer to,* ***Electrical system - Special tools 2 (55.000)****.*



ZEIL10DIA456A0Y 24

On bale weight controller

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230-Pick up speed sensor short circuit to 12 volts

Context:
The pickup speed sensor registers the speed of the pickup and converts it to an electric signal.

Cause:
A faulty sensor **B-008** or a wire is shorted to **12 V**.

Possible failure modes:

1. Internal failure of the controller **A-033**.
2. Failure of the pickup speed sensor **B-008**.
3. A wiring error.

Solution:

1. Select the pick up speed **B-008** routine in the monitor diagnosis inputs page. The voltage bar graph will show **12 V**.
2. Disconnect the connector **X-113**.
   A. If the voltage bar graph shows < **9 V**, replace the pickup speed sensor **B-008**.
   B. Else, go to test **4**.
3. Open the connector **X-004**, remove the pins **5** and **14**. Reconnect the connector.
   A. If the voltage bar graph shows < **9 V**, check the wires **MF 032 BL** and **MF 024 YE**.
   B. Else, go to test **4**.
4. Disconnect the connector **X-030**.
   A. If the voltage bar graph shows < **9 V**, replace the fuse and relay panel.
   B. Else, check and if needed replace the flat cable **X-033** to **X-030**.
   C. Else, replace the control panel.

Wire harnesses - Electrical schematic frame 05 (55.100.DP-C.20.E.05)

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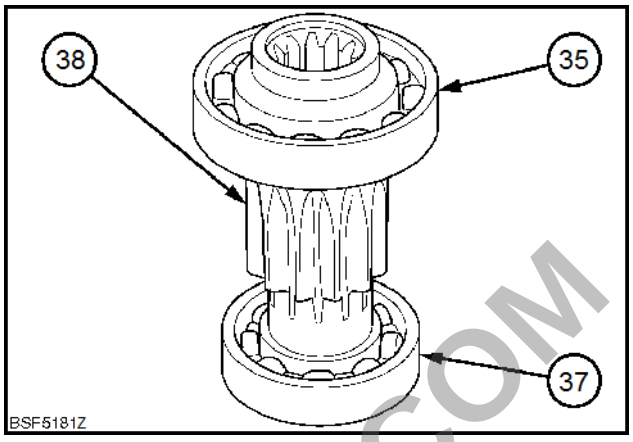
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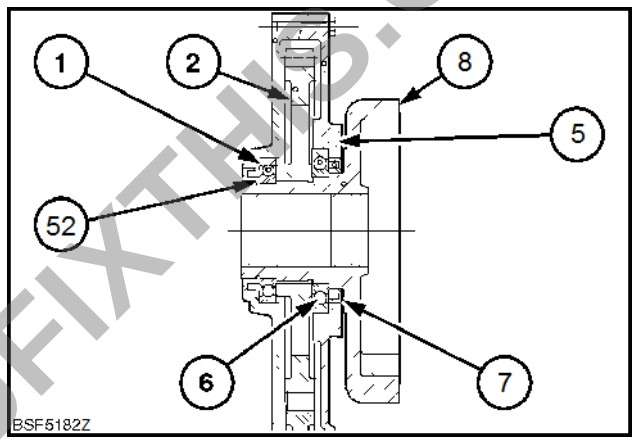
16. Pump drive shaft **(38)** disassembly: separate the pump drive shaft **(38)** from the bearings **(35)** and **(37)**.

NOTE: *Inspect, repair/replace as needed.*



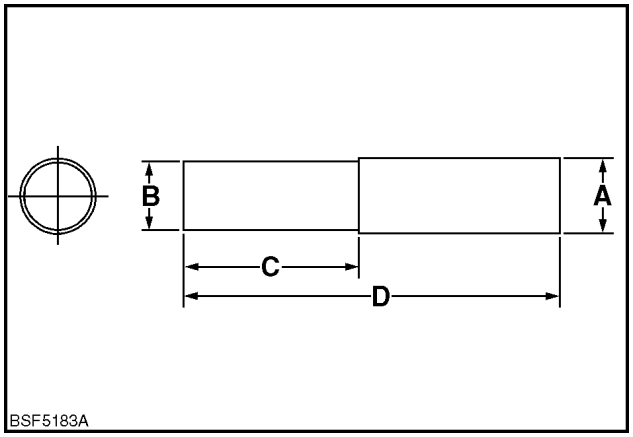
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17. Remove the retaining ring **(52)**.
18. Pull the bearing **(1)** out and remove the gear **(2)**.
19. Pull the flange **(8)** from the gearbox housing **(5)** and remove the bearing **(6)** and the seal **(7)**.



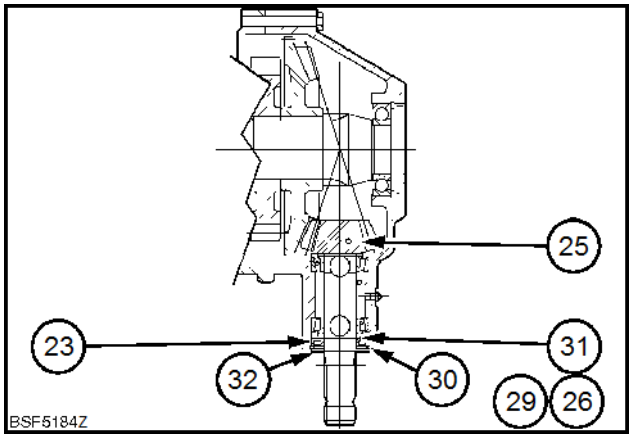
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20. A tool may be made to drive out the friction bearings **(9)** and to install the new parts. The tool is a round shaft with the dimensions:
    - **A = 74.8 mm** (**2.945 in**)
    - **B = 69.8 mm** (**2.748 in**)
    - **C = 140 mm** (**5.5 in**)
    - **D = 300 mm** (**11.8 in**)



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21. Remove the retaining ring **(30)**, the cover **(32)**, the oil seal **(23)**, the retaining ring **(31)** and the shims **(26)** and **(29)**. Remove the pinion **(25)** from the inside.



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